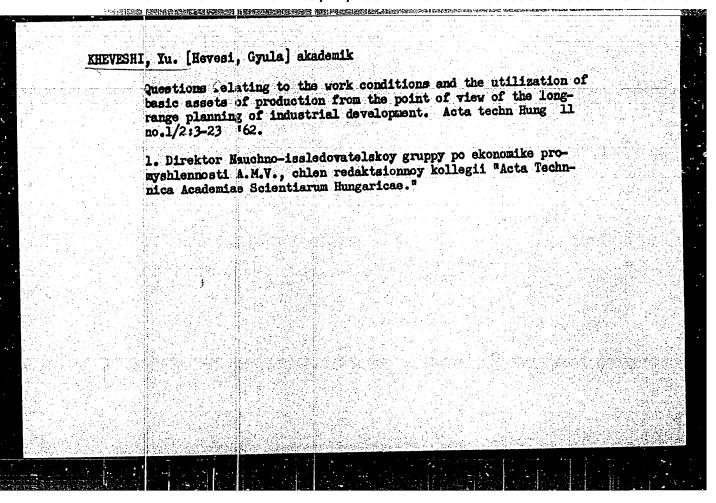
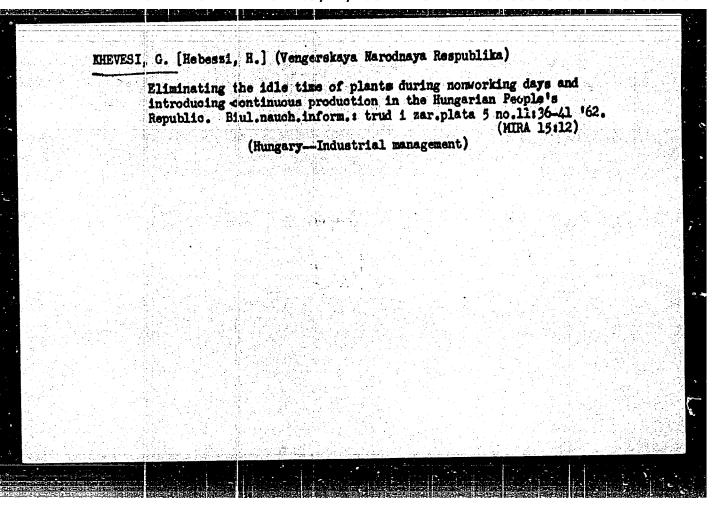
ACC NR: AP7000036

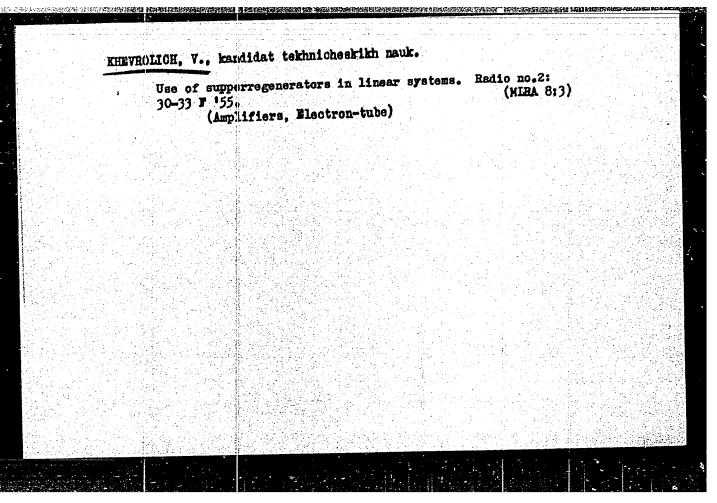
glycerin solutions of fluorescein, glycerin solutions of tripoflavin and rhoduline orange and rhodamine-B, and alcohol solutions of eosin and erythrosine as well as the aqueous solutions of fluorescein and the alcohol solutions of tripoflavin investigated earlier. The second group includes alcohol solutions of phloxin, Bengal rose, flavophosphine, and aurophosphine. Differences between the present results and those published by others are discussed. Simultaneously with measuring the quantum yield the authors investigated carefully the absorption spectra, and found that the absorption coefficients of the first group change with temperature, resulting in an increase of spectral width. The absorption coefficients of the second group do not change with temperature. The slopes of the quantum-yield curves are affected by the type of solvent used. Typical values are (in multiples of 10-14) 10.8, 12.0, 11.8, and 13.5 for glucose, water, ethyl alcohol, and glycerin, respectively. The temperature dependence is attributed to changes in the populations of the vibrational levels of the molecules. Some unexplained points are briefly discussed. The authors thank A. Budo and I. Ketskemety for continuous interest and useful advice. Orig. art. has: 3 figures and 2 tables.

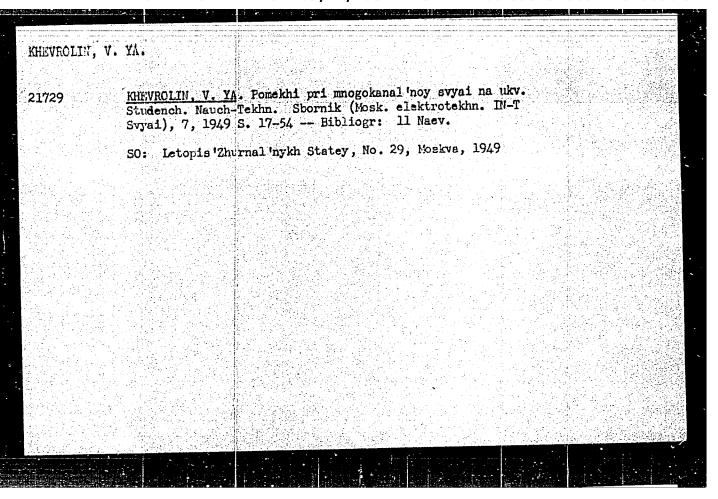
SUB CODE: 20/ SUBM DATE: 19Mar66/ ORIG REF: 003/ OIH REF: 003

Card 2/2









UBSR/Electronics - FM Receivers

USSR/Electronics - M. Receiv
KHEVROLIN, V.

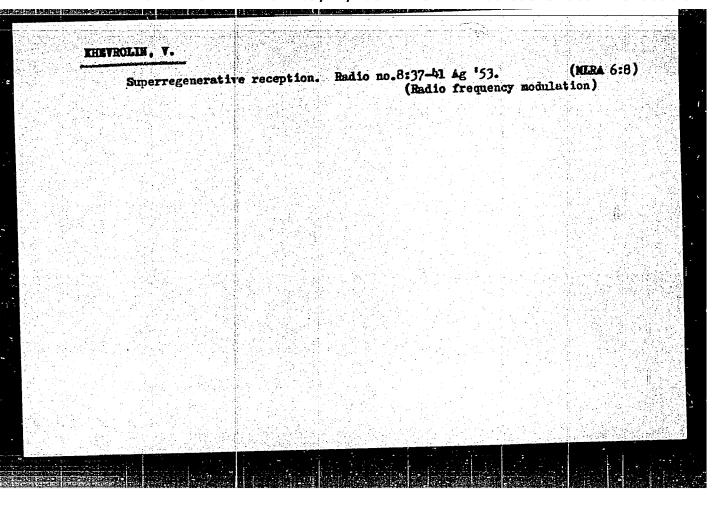
"The Intermediate-Frequency Amplifier of an FM Receiver," V. Khevrolin

Radio, No 6, pp 31-35

Discusses the selection of an intermediate frequency, choice of tubes for an i-f amplifier, and selection of an i-f filter. Mentions that while a frequency swing of ± 75 kc is presently accepted for FM broadcasting, a change to restrict this to ± 50 kc is a under consideration.

261.768

June 53



KHEVROLIN, V.			•
	USSR/1	lectronics - Radio Receivers Oct 53 Ultrashort-Waves	
	"Const Receiv	ructing Circuits of Combined [AM/FM/USW] Radio ers," G. Kostandi, V. Khevrolin	
	Radio	No 10, pp 28-31	į.
	ceived tivity for N	proposes standards for ultrashort-wave restricted frequency, selectivity, and sensitive Discusses selection of circuit components receivers, use of reflex circuits, and gives k diagrams of combined AM/FM/USW circuits.	
		276125	

lnst	itute of	The Theory and ractical Applica Communications,	30 Jun 54. \	vecnernyaya a		
٥٤:	3UN 318,	23 Dec 1954				

大//SVRのA USSB/ Electronia		re diractes	
Card 1/1 P	b, 69 - 18/32 evrolin, V.		
Male II	e applicatio	of ultra-high frequency linear regenerative directive	
Periodical : F	idio 2, 30 -	3. Teb 1955	
Abstract 1	athods of adj egenerative o resented, top	isting and operating an UHF receiver incorporating lines irquit are described, graphs and dirquit diagrams are ather with technical specifications. Graphs; diagrams,	
Institution:			
Submitted:			
	100.00		EXPENSE EX

AUTHOR:

Khevrolin, V. Ya.,

Member of the Society

108-1-4/10

TITLE:

On the Theory of a Super-Regenerative Receivers With

Linear Operation (K teorii superregenerators,

rabotayushchego v lineynom rezhime)

PERIODICAL:

Radiotekhnika, 1958, Vol. 13, Nr 1, pp. 40-55 (USSR)

DeystimTel Nyy culey Davenus - factoriches keine Grenchesty & Ranio Texamici

I BLEATRUSUYAZI IMENI A S. PUNOVA.

INSTITUTE ABSTRACT:

The author tried to give the simplest possible theory for super-regenerative receivers as well as a method for their calculation. The first part of this work was given in ref.4. Here the results of another reformation of the theory are shown. The theory of the electric processes in the circuit of a nuper-regenerative received with linear operation is investigated. First the equations of the processes occuring in the super-regenerative received are deduced. The oscillation processes in the circuit are the subject of

investigation. The parameters C and R of the circuit are in the general case functions of time and of the current in

the circuit. With linear operation they do not depend on the current, and are periodic functions of time. The equations

(5) are deduced. These form the basis for further

Card 1/4

On the Theory of a Super-Regenerative Receivers With 108-1-4/10 Linear Operation

investigation. All super-regeneration received parameters are determined by the law for the modification of the circuit-decrement with time i.e. by the shape of the function $\varrho(t)$. For the case where a resonance signal is effective the equation (5) simplifies to equation (6). Any special value of the integral $\int \delta dt \cos \theta = put \sin \theta$. It is

here assumed to $D_t = \int_0^t \delta dt$.

Two special cases are investigated: The law for the dying-out of restangular and of saw-tooth waves. The condition (20) for the stability is deduced. This condition is valid for all laws of a change of dying-out. An approximate solution of the problem with a resonance signal is given for the general case. First the formula (25) for the amplification of the resonance signal by the super-regenerative receiver is resonance signal by the super-regenerative receiver is put down for the general case, and the character of the functions D(t) and D_t - D_t is investigated for the most

Card 2/4

On the Theory of a Super-Regenerative Receivers With Linear Operation

108-1-4/10

simple laws of dying-out changes .- The comparison of the calculation results according to exact formulae with the here obtained results shows good agreement. An experimental checking showed a sufficient accuracy in the computation of amplification according to the method given here (ref. 4). The results obtained make it possible to draw conclusions as to the magnitude of the amplification. Based on these conclusions the calculation of resonance amplification with great amplifications can be essentially simplified. The errors which occured in other works in the formulation of the condition for a stable amplification are shown. The conditions for the obtaining of a high selectivity are deduced (39). Based on this equation the following can be said on the selectivity of a superfeed-back for the dying-out modifications of rectangular waves: 1.- The seclectivity does not depend on the amplification. 2.- the selectivity does not depend on the superregenerated frequency. 3.- With normal M values (some units) the maximal selectivity of the superregenerative receiver is very low (also some units).

Card 3/4

On the Theory of a Super-Regenerative Receivers With

Linear Operation

There are 9 figures, and 10 references, 10 of which are Slavic.

SUBMITTED: October 28, 1956 (initially) and September 4, 1957 (after revision)

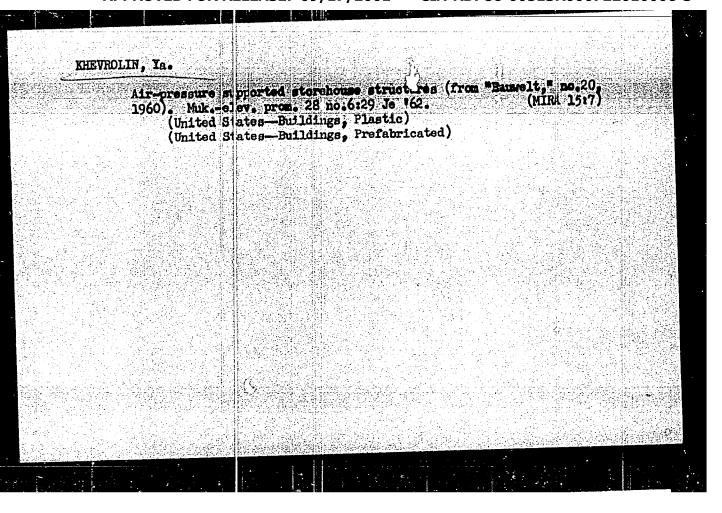
AVAILABLE: Library of Congress

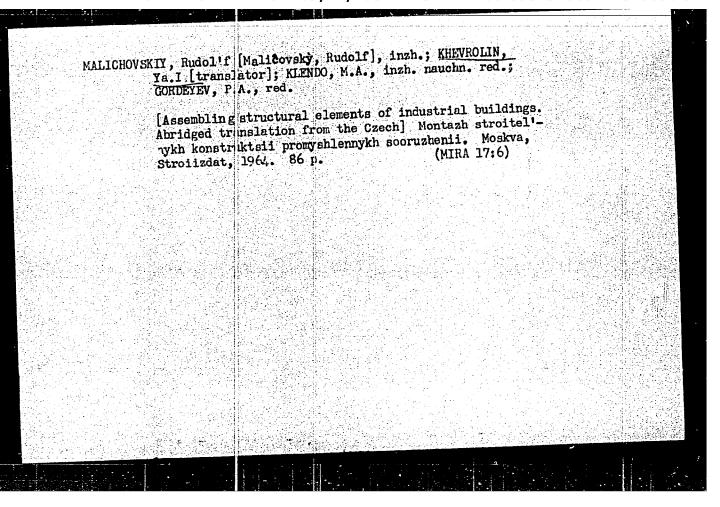
1. Super regenerative receivers 2. Mathematics-Theory

Card 4/4

SOV/108-13-11-14/15 6(4) Khevrolin, V. Ya. AUTHOR: Concerning the Letter by L. S. Gutkin (Po povodu pistma 1. S. Gutkina) TITLE: Radictekhnika, 1958, Vol 13, Nr 11, pp 79-80 (USSR) PERIODICAL: This is a letter to the editor. In his letter Gutkin mentions two subjects: 1) He proves that an error has ABSTRACT: been committed in connection with the derivation of stability conditions and that therefore the result obtained is wrong. 2) He alleges that the conclusions drawn with respect to the domain of constant amplification are wrong. To this the following comments are made: 1) What is said with respect to point 1) is correct. 2) The criticism with respect to point 2) is unfounded. These statements are substantiated. Card 1/1

KHEVROLIN, Ya.	Com "Die Cetreidemuhle," no.7	1961).	
Steam treat	ng of rye (170m 22 My 162.	(MIRA 15:5)	
Mik818V.	ng of rye (from "Die Getreidemuhle," no.7 rom. 28 no.5;32 My '62. East-Rye) (Germany, East-Flour mills)		
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KHEVRUNIN, I.S., in	hener.		
Determining Sudostroen	the minimum area of a cross section to 23 no.7:33 J1 57. (Electricity on ships)	for bunched cables. (MLRA 10:8)	

6(0), 9(0) SOV/112-59-5-9916

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 212 (USSR)

AUTHOR: Dun'ye, V. L., and Kheyrunin L.S.

TITLE: Transmission of a Square Pulse Through a Detuned Oscillatory System
That Has a Bell-Staped Resonance Curve

PERIODICAL: Tekhn. televideniya. M-vo radiotekhn. prom-sti SSSR, 1957, Nr 23, pp 48-57

ABSTRACT: A formula has been derived for computing the envelope of the output voltage of a band filter, that has a bell-shaped resonance curve; transmission of a pulse whose frequency differs from resonant is considered. The solution is based on expressing definite integrals in the form of a series consisting of Kramp's functions or their derivatives:

where $\phi^{(2n)}\left(\frac{t}{2\sqrt{a}}\right)$ is the Kramp's function derivative;

Card 1/2

SOV/112-59-5-9916

.Transmission of a Squire Pulse Through a Detuned Oscillatory System That .

$$\phi (x) = \frac{2}{\sqrt{3\tau}} \int_{0}^{x} e^{-x^{2}} dx$$

The fundamental difficulty of calculations with the above formula lies in computing the derivatives of higher orders for the Kramp's function. In the existing tables, the highest derivative order is 20, which is insufficient by far. Some results of calculations have been verified experimentally. Discrepancies do not exceed 25%. They can be explained by the fact that the resonance characteristic has a higher detuning and for a given Q-factor, the steady-state voltage is lower. A blip appears who see value is higher than the steady-state value. At some detuning values, the output-voltage envelope begins to oscillate. Similar phenomena are observed if the system Q-factor is increased with a fixed non-zero detuning.

S.I.S.

Card 2/2

80V-109-3-6-21/27

AUTHOR: Khevrunin, I. S.

TITLE: Transfer of a Gaussian Pulse Through an Ideal Filter (Prokhozhdeniye kolokol'nogo impul'sa cherez idealizirovannyy

PERIODICAL: Radiotelinnika i Elektronika, 1958, Vol 3, Nr 6, pp 843-844 (USSR)

ABSTRACT: A Gaussian pulse having a duration τ_0 can be represented by the integral:

$$f_1(t) = \frac{E}{\sqrt{\pi \alpha}} \int_0^{\infty} e^{-\frac{\omega^2}{4\alpha}} \cos \omega t d\omega$$
 (1)

where α = 4ln d/r_0^2 . If the pulse is passed through a rectangular filter having a bandwidth ω_o and a gain k Card 1/2

Transfer of a Gaussian Pulse Through an Ideal Filter

the output signal is in the form of Eq.(3) whose solution is given by Eq.(4). The output signal as expressed by Eq.(4) is plotted in the figure on p 844. The paper contains 1 figure and 3 references, 2 of which are Soviet and 1 English.

SUBMITTED: May 14, 1957.

1. Pulses - Transmission 2. Radiofrequency fulters - Performance 3. Mathematics - Applications

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010006-3"

Card 2/2

06531 SOV/142-2-2-7/25

9(3) AUTHOR: Khevrupin - I S

TITLE:

The Passage of a Bell-Shaped Radio Pulse Thru an Oscillator Circuit Having a Flat-Top Resonance Character-

istic

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,

1959, Vol. 2, Nr 2, pp 181-185 (USSR)

ABSTRACT:

The author considers problems connected with the passage of a bell-shaped radio pulse thru an oscillator circuit, whose amplitude-frequency characteristic has a flat top. He derives a formula for calculating the pulse shape at the outlet of the oscillator circuit in dependence of its parameters and pulse length. As an example, figure 3 contains a graph, showing the passage of a bell-shaped pulse passing thru a circuit with a flat-top amplitude-frequency characteristic. Considering the aforementioned graph, the author arrives at the conclusion that the pulse shapes at the circuit outlet show little difference between each other. However, an increase in the steepness of the

Card 1/2

AUTHOR: I.S. Khovrunin SOV/109- --4-3-5/38 TITLE: Calculation of the Gain of an Antenna Having an Elipsoidal Directional Pattern (Raschet knd antenny s diagrammoy napravlennosti ellipsoidal'noy formy) PERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 3, pp 381-388 (USSR) ABSTRACT: The directional pattern of the antenna is expressed by: $\frac{\left(y - \frac{b}{2}\right)^2}{b^2} + \frac{z^2}{c^2} = \frac{1}{4}$ (1) The maximum field intensity at a distance r radiator is expressed by Eq (2) where λ is the wavelength and M₁ is given by the integral on page 381. By adopting a system of spherical co-ordinates, as defined by Eq (3), Eq (1) can be written as Eq (4) where $\Phi_1 = b/t$ and $\Phi_2 = b/c$. The power radiated by the system is expressed by Eq (5). This can also be represented as Eq. (4) sented as Eq (6) where the integral I is defined by Eq (7). The gain of the antenna can be found by Card 1/2 evaluating the integral I. For a < c < b and

Calculation of the Gain of an Antenna Having an Elipsoidal

Orectional Pattern

Solv/109---4-3-5/38

Pattern

Orectional Pattern

Orectional Pattern

There are 2 figures and 1 English reference.

6,4770

26202 8/105/50/000/002/003/009 A055/A133

AUTHORS:

Dun'ye, V. I. and Knevrunin, I. S.

TITLE:

Passage of racio pulsesthrough a detuned selective channel of radio

PERIODICAL: Elektrosvyaz', no. 2, 1960, 20 - 27

TEXT: The amplitude-frequency response of a selective channel is approximated by a bell-shaped curve in the presence of a rectangular pulse, and by a giving the envelopes of the output pulses at different values of detuning of the selective channel pass-band and of the pulse duration. This article complements ougol'nogo radioimpul'sa cherez rasstroyennuyu kolebatel'nuyu sistemu s resonans-tuned oscillating system with a bell-shaped resonance ourve) Tekhnika televideniya No. 23, Cosenergoizdat, M. 1957]. Passage of a rectangular pulse through a dearlier article, the envelope of the cutput pulse can be expressed as:

Passage of radio pulse through ... $\frac{S/106/60/000/002/003/009}{A055/A133}$ $U_{outp} (t') = \frac{E}{2} \left[\int_{0}^{\infty} e^{-a(\Omega + 0)^2} \frac{\sin \Omega \left(t' + \frac{\tau}{2} \right)}{\Omega} d\Omega \right]$ where the pulse is, this time, determined within the range $-\frac{\tau^2}{2}$ to $+\frac{\tau^2}{2}$. E is here the input-pulse amplitude at $-\frac{\tau^2}{2} < t < \frac{\tau}{2}$, $\frac{\omega - \omega_0}{\omega_0} = \Omega$ is the relative passing frequency; $\frac{\omega_0}{\alpha_0} = 0$. C [Abstractor's note: C is apparently a mispring for resonance frequency of the system), $\omega_0 t = t'$ is the relative current time; $\omega_0 \tau_0 = t'$ is the relative pulse-duration; $\omega_0 \tau_0 = t'$ is a parameter proportional $\omega_0 \tau_0 = t'$ is the relative pulse-duration; $\omega_0 \tau_0 = t'$ is a parameter proportional $\omega_0 \tau_0 = t'$ in $\omega_0 \tau_0 = t'$ is the relative pulse-duration; $\omega_0 \tau_0 = t'$ is determined by:

Passage of radio pulse through ... $\frac{26202}{S/106/60/0002/003/009}$ where $4\omega_0$ is the system pass-hand at level 1/d from maximum level. Introducing the parameters $\beta = \Delta f U_0$ $K = \frac{\alpha \sqrt{d}}{2\sqrt{\ln d}}$ (3) $t_0 = \frac{t}{U_0}$ the authors obtain the following expression for (1): $U_{\text{outp}}(\beta, K; t_0) = \frac{R}{2} e^{-K^2 \ln d} \operatorname{Re} \left\{ \phi \left[\frac{\pi \beta (t_0 + 0.5)}{2\sqrt{\ln d}} - 1 2K\sqrt{\ln d} \right] - \phi \left[\frac{\pi \beta (t_0 - 0.5)}{2\sqrt{\ln d}} - 1 2K\sqrt{\ln d} \right] \right\}$ where $\varphi^{(2,\gamma)}$ is the 2n-th derivative from the probabilities integral. Direct cal-

Passage of radio pulse through

3/106/60/000/002/003/009

culation with this formula being very difficult, the authors introduce the func-

$$w(z) = e^{-z^2} \left(1 + \frac{21}{\sqrt{3\pi}} \int e^{z^2} dt \right) = u(x,y) + iv(x,y), \tag{6}$$

where z = x + iy. Tables exist, giving the values of u(x,y) and v(x,y) within a sufficiently wide range of z. The solution of (5) takes then the following form:

Outp
$$(x, y_1, y_2) = \frac{E}{2} \left\{ e^{-y_1^2} \left[u_1(x, y_1) \cos 2xy_1 - v_2(x, y_2) \sin 2xy_2 \right] - e^{-y_1^2} \left[u_1(x, y_1) \cos 2xy_1 - v_1(x, y_2) \sin 2xy_2 \right] - \frac{e^{-y_1^2}}{2\sqrt{\ln d}} \left[u_1(x, y_1) \cos 2xy_1 - v_1(x, y_2) \sin 2xy_2 \right] - \frac{e^{-y_1^2}}{2\sqrt{\ln d}} \left[u_1(x, y_1) \cos 2xy_2 - v_1(x, y_2) \sin 2xy_2 \right] \right]$$

The examination of the graphs corresponding to (7) leads to the collisions: When there is no detunctor (8)

The examination of the graphs corresponding to (7) leads to the following conclusions: When there is no detuning (K = O), the total amplitude of the output pulse and its shape depend on A. For Arv 1.5, the output pulse attains the steady--state value, and the pulse-shape approximates a rectangular shape. As A decreases, the total amplitude of the pulse decreases, and the pulse tends to become

Card 4/6

Passage of radio through

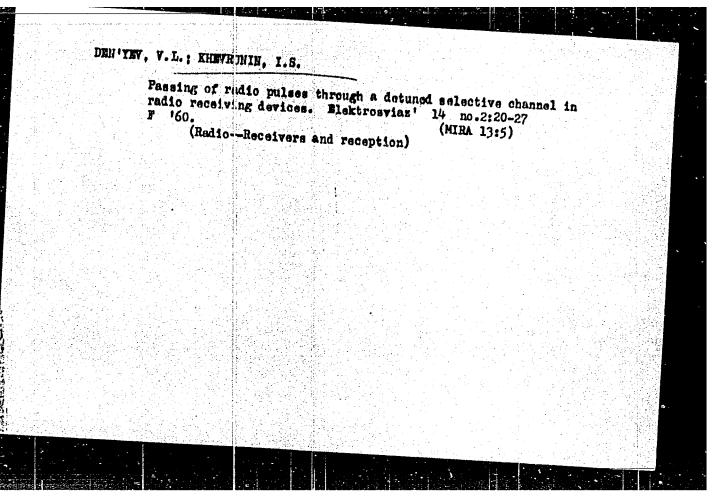
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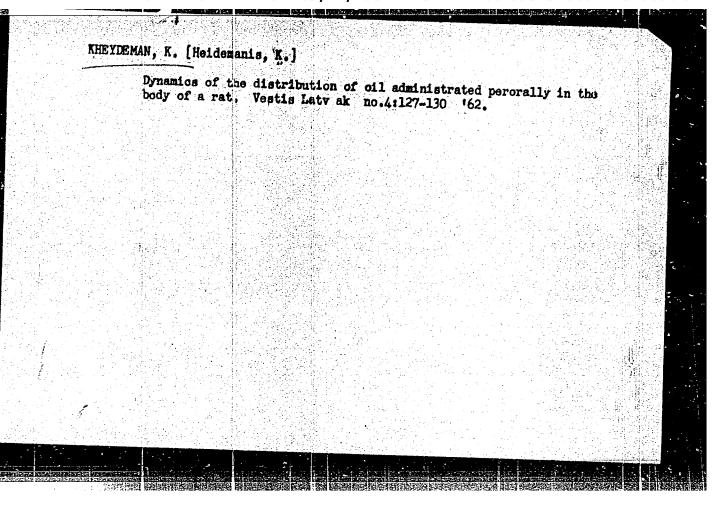
bell-shaped. Debuning also affects the size and shape of the output pulse. it increases, the total amplitude of the pulse diminishes, and, from certain values of K upwards, oscillations appear at the pulse-fronts. Passage of a bellshaped pulse through a detuned selective system with a restangular frequency response: In an analogous marger, and introducing analogous parameters β , K and to, the following formula is obtained for the envelope of the output pulse:

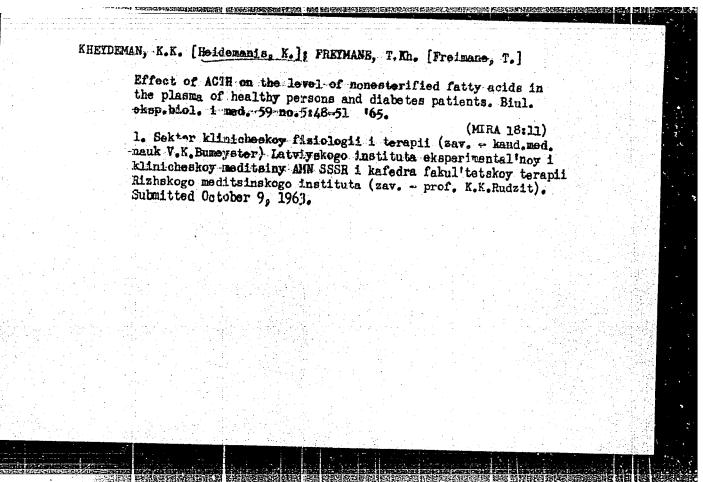
Use output
$$\frac{E}{2} = \frac{4t_0^2 \ln d}{2V \ln d} = \frac{\pi \beta (K + 0.5)}{2V \ln d} - 12t_0 \sqrt{\ln d} - \frac{\pi \beta (K + 0.5)}{2V \ln d} = \frac{\pi \beta (K + 0.5)}{2V \ln d}$$
(13)

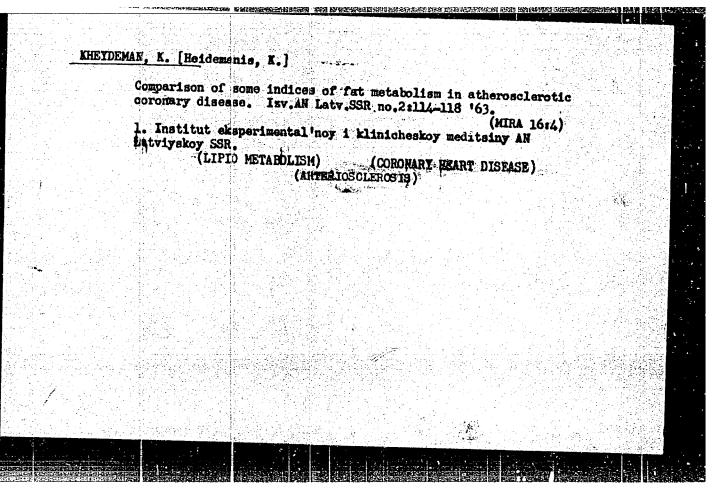
which is also expressed through tabulated functions u(x, y) and v(x, y). The analysis of the obtained graphs leads to the following conclusions. The absolute value of the output voltage increases with β and reaches its steady value at β≈ 1.5 and K = 0. The pulse is not far from being bell-shaped, but at its tails occur damped oscillations whose period is determined by the transmission band-

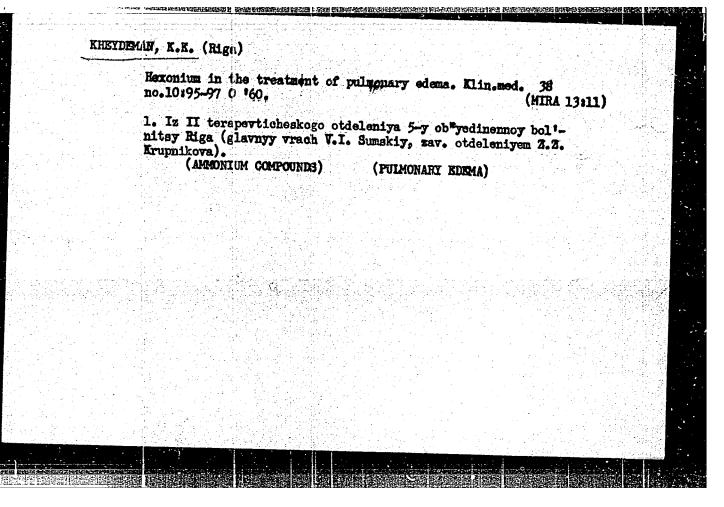
oscillating voltage whose The effect detuning is the and 5 Soviet-bloo reference	26202 S/106/60/000/002/003/009 ter. In the presence of detuning, the absolute value ing increase brings about a reduction of the pulse-duse of K upwards, the cutput pulse takes the form of an greater, the greater parameter \(\beta\). There are \(\beta\) figures	
May 19, 1959.	eript is translated in the text and formulae: "outp"	
Card 6/6		

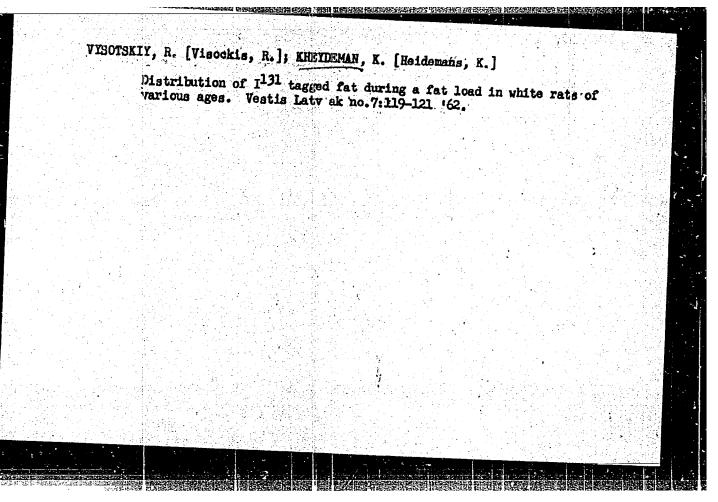












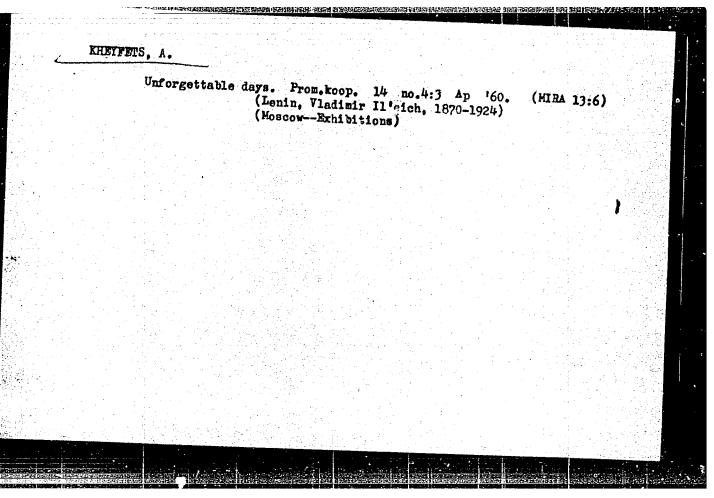
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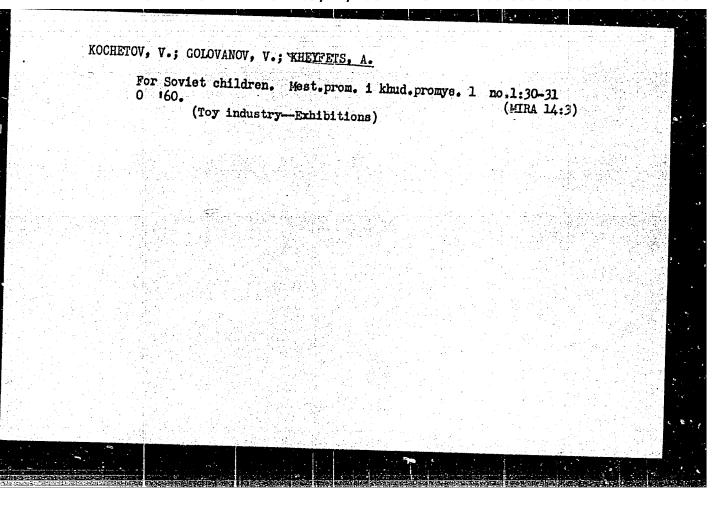
EKKERT, P.A., KHEYDEY, A.A., MINEOVICH, V.Zh.; GRUSHANOV, L., tekim.

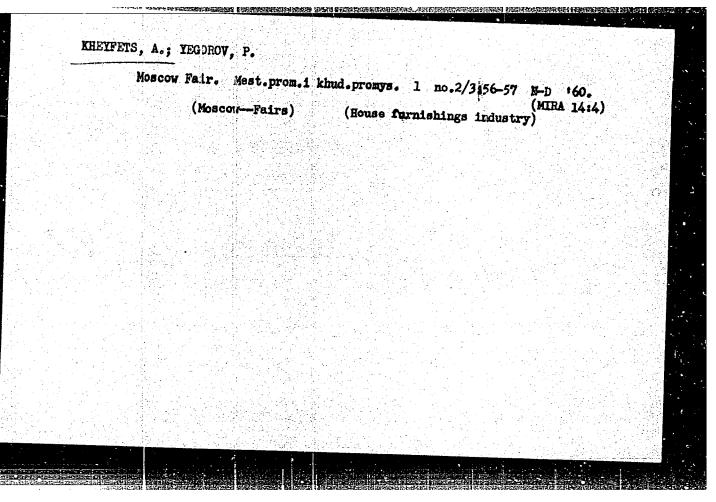
[Heat transfer, reduction temperature and surface friction in a plane plate with hydrogen injection into the laminar boundary trenie na ploskoi plastine s podachei vodoroda v laminarnyi pogranichnyi sloi; soveshchanie po teplo-i massoobmenu, g. Minsk, 1961. 34 p.

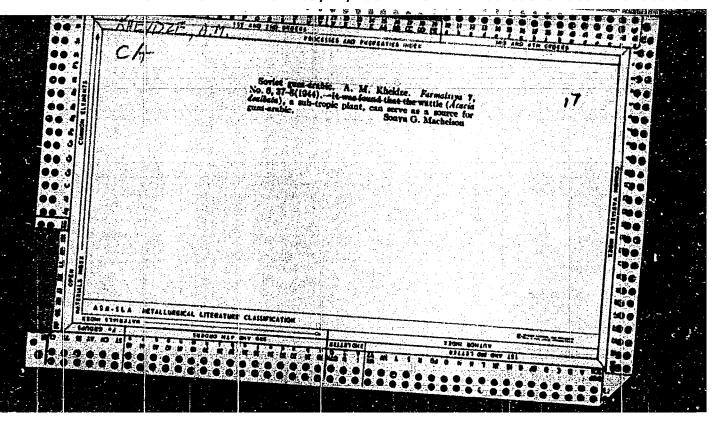
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(Mass transfer)



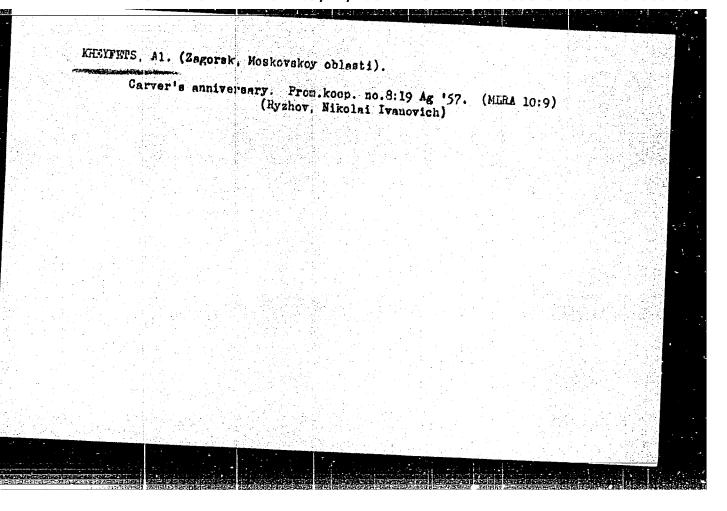






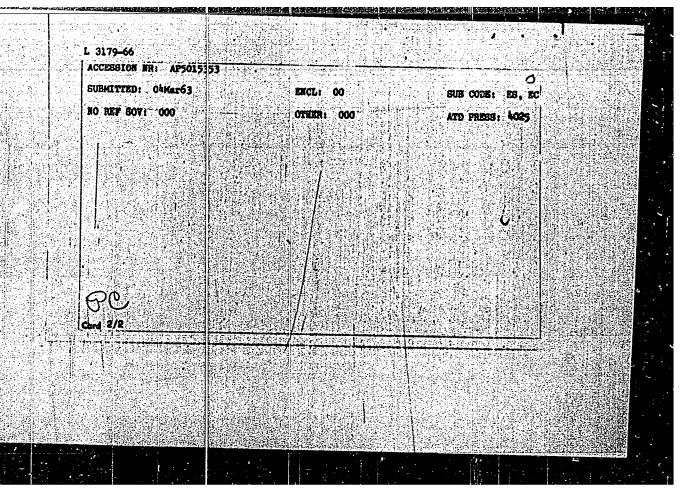
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L 3179-66 ETC(m) NW			
ACCESSION NR: AP5015353 AUTHOR: Chekalov D. V.; Mulyar. Smirnov, N. Ye.; KhevGata A. V.; Dynamov, S. M.; Dubro, G. B.	681.14	0/009/0098/0099 chenko, A. K.; Vorogataov, A. W.	
TITLE: Electronic instrument for Class 42, No. 170776 SOURCE: Byulleten' importenty i	measuring velocity, distance trav	ersed, and time.	
ABSTRACT: An Author Cartificate, distance traversed, and time, commerced equipped with a unit for and a unit for measuring phase discircuit connections of the device are described in detail.	rangefinder, geodetic instrument 19,44,5 issued for a device which measure bines a high-precision telluromete converting sinusoidal signals to	s velocity, r, a phase pulsid signals,	
ASSOCIATION: none		GP)	

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010006-3



AUTHORS: Brish, A.A. Dmitriyev, A.B., Kosmarskiy, L.N., Sachkov, Yu.N., Sbittiev, Ye.A., Kheyfets, A.B., Tsitsiashvili, S.S., and Eys, L..

TITIE: A Vacuum Sperk Switch (Vakuumnyye iskrovyye rele)

PERIODICAL: Pribory

1 tekhnika eksperimenta, 1958, Nr 5, pp 53-58

ABSTRACT: The device consists of an evacuated glass envelope which contains 3 electrodes (see the general diagram of Fig.1).

The principal discharge gap comprises a complex cathode consisting of two electrodes which form an auxiliary discharge gap.

The two cathode electrodes are separated by means of a fine mica plate; when a triggering pulse is Fig.2 show; balternative solutions of the electrode systems ewitches (tubes 4, 5, 6 and 7) and photographs of actual trons (tubes 1, 2 and 3) for the purpose of comparison. The basic parameter of a switch is its anode voltage V, its operating current I and its triggering breakdown voltage Vy. The anode operating voltages up to 20 kV could be

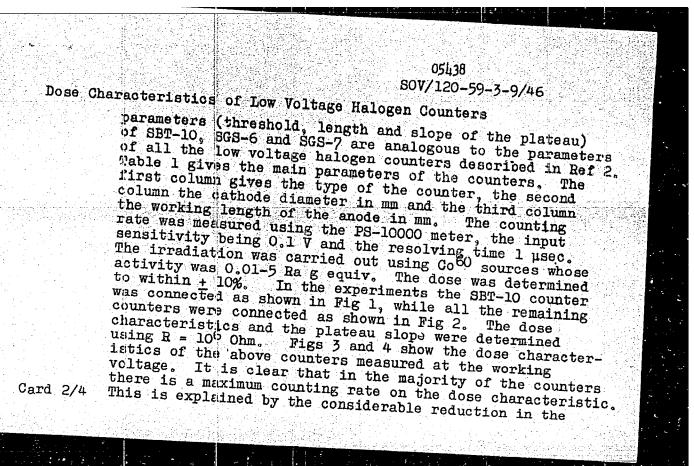
A Vacuum Spark Switch

SOV/120-58-5-13/32

cischarge current are determined primarily by the external parameters of the circuit in which the switch is employed. The currents can be very high since the tube is "extinguished" at a current of about 20 Å. The energy required for the initiation of the main-gap breakdown is very small. Thus capacitance of about 5 μ, but the triggering voltage should be at least 1500 V. The switch is subject to some time to at least 1500 V. The switch is subject to some time to is the time between the commencement of the triggering pulse and the inception of the trigger gap discharge; to is the time lag between the commencement of the auxiliary is the time lag between the commencement of the auxiliary is the formative time of the main-gap discharge, and time delays are illustrated graphically in Fig.4. In actual order of 0.03 μs. The electrical characteristics of a spark

A Vacuum	Spark Switch	SOV/120-58-5-13/32
Ñ	LUCITION	the number of switchings performed. Fig.11, which shows the ignition been that the voltage decreases with is 11 figures and no references.
Card 3/3		

· · 05438 SOV/120-59-3-9/46 AUTHORS: Dmitriyev A. B., Peskov, D. I., Kheyfets, A.B. and Chaykovskiy, V. G. Dose Characteristics of Low Voltage Halogen Counters (Dozovyye kharakteristiki nizkovol'tnykh galogennykh schetchikov) PERIODICAL: Pribory L tekhnika eksperimenta, 1959, Nr 3, DP 47-49 (USSR) ABSTRACT: The dose characteristics of the low voltage halogen counters ST3-1, STS-2, STS-5, STS-6, STS-8, SGS-5, SGS-6, SBT-10 and SGS-7 have been measured and are now reported. The parameters of the first six counters were given by Dmitriyev (Ref 2, a review paper). The SGS-6 counter is similar to the SGS-5 but its cathode has a longer working length. The SBT-10 is designed to detect soft β-radiation and has a 30 cm² mica window. It consists of ten sections placed in a common envelope. The cathode of each section is in the form of a half-cylinder, 5 mm in radius. The anode of each section is 55 mm long and has a separate output terminal. In the SGS-7 counter the cathode and the anode are in the form of discs 10 mm and 0.5 mm in diameter, respectively. Card 1/4 The gap between the discs is 1 mm. The electrical



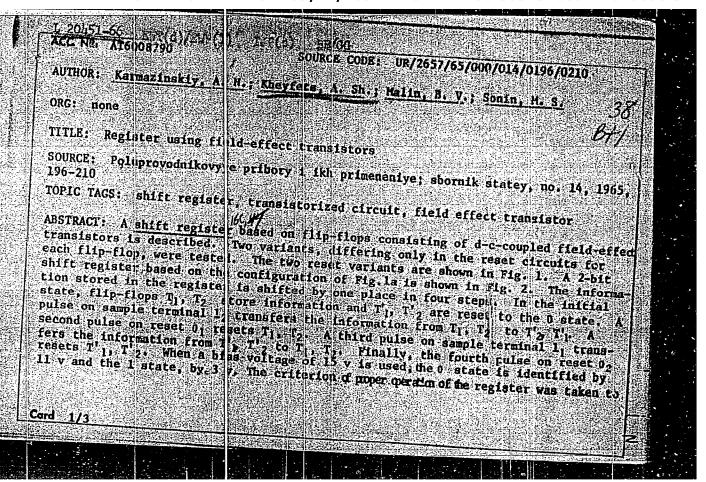
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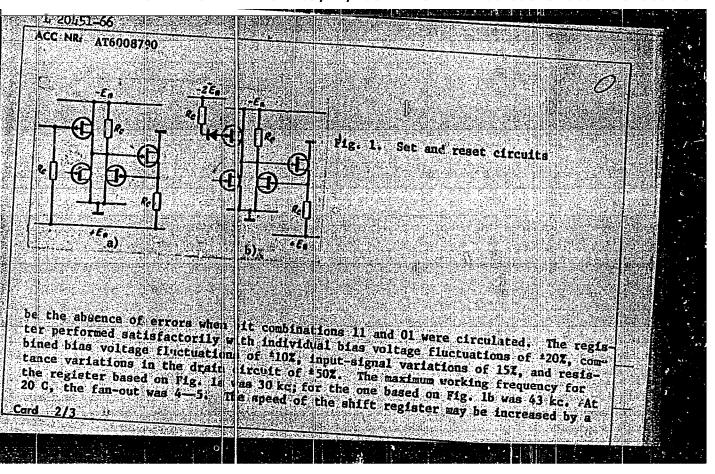
Dose Characteristics of Low Voltage Halogen Counters

pulse height at large counting rate. Under these conditions the potential difference across the counter is not fully established. Since halogen counters give pulses with unequal amplitudes (Ref 3) it follows that some of the pulses may fall below the threshold of the detecting of the counters; where column 1 gives the type of the counter, column 2 the dose range in µr/sec, column 3 counting rate at the appropriate dose in pulses/sec and column 4 the maximum counting rate in sec and column 4 the maximum counting rate in dose in µr, sec and the second and third columns give the plateau slope on the dose in percent/Volt for the STS-5 and SGS-5 counters, espectively (the headings of columns 4, 5 and 6 are the lame as those of 1, 2 and 3). Table 4 gives the resolving time of the counters. Column 1 of this table gives the type of the counter, columns 2 and 3 the resolving time in µsec at 100 pulses/sec and at maximum counting rate, respectively (columns 4, 5 and 6 have the same headings as 1, 2 and 3). The load resistance has a

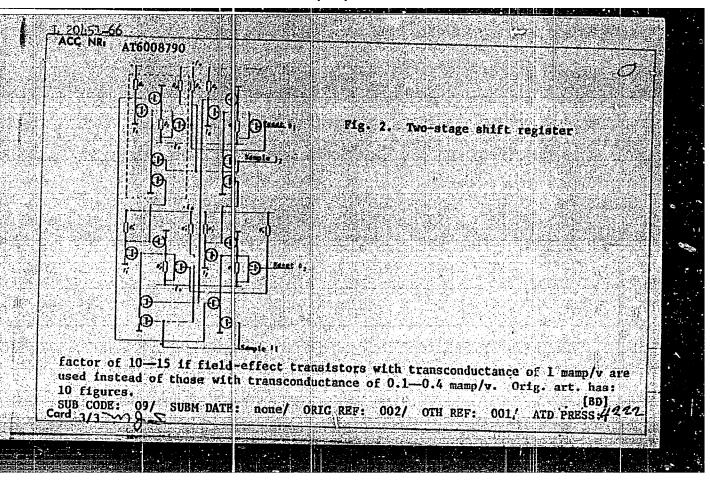
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507/28-59-4-15/19

AUTHORS:

Kaufman, R. Ya., Engineer; Kheyfets, A.Z., Engineer; Bortovskiy, B.V. and Kirilenko, A.G., Engineers,

(Odessa)

TITLE:

To The Revision of The Standards "Drawings System" (K peresmotru standartov "Sistema chertezhnogo

khozyaystva)

PERIODICAL:

Standartizatsiya, 1959, Nr 4, pp 34-35 (USSR)

ABSTRACT:

Three separate letters to the periodical point out shortcomings in the existing standards for technical drawings, a draft of a new standard, and amendments. The faults are: too cumbersome designations of materials, vague recommendations concorning the place of dimension lines and figures and the designations of finish, superfluous lists and speci-

Card 1/2

fications requiring a lot of work of designers and

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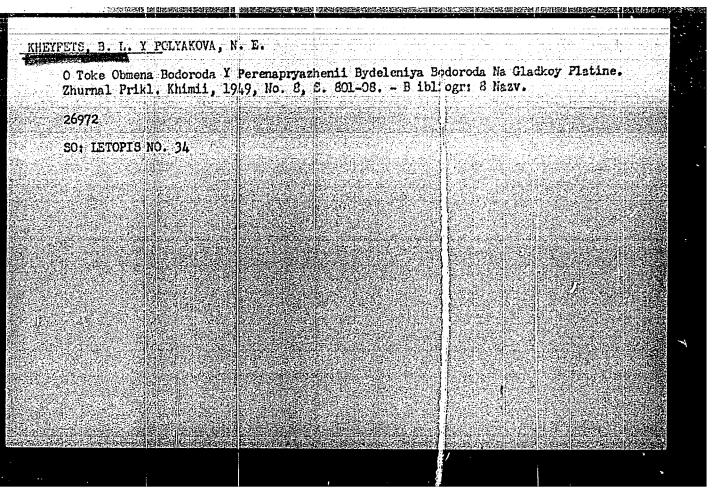
To The Revision of The Standards "Drawings System"

copyists and being used by nobody, the rule to indicate the name and number of "GOST" standards in drawings, causing amendments in thousands of drawings when slight amendments are made in a material standard. There are 2 diagrams.

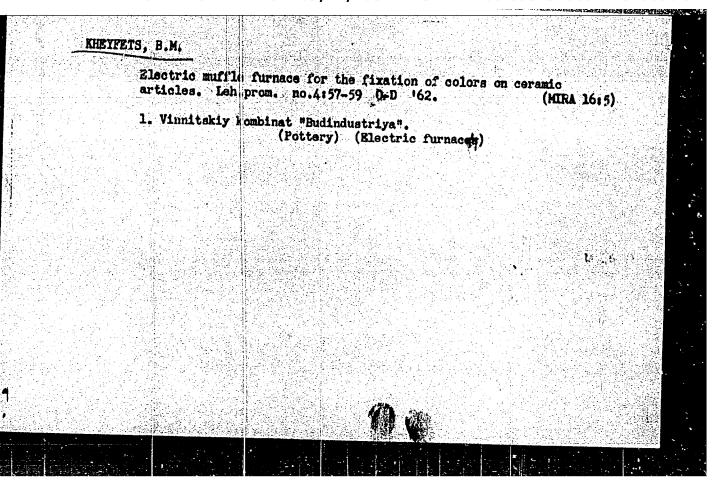
ASSOCIATION: Irkutskiy filial NIIKhIMMASh (Irkutsk Branch of the NIIKhIMMASh) (R. Ya. Kaufman, Engineer)

Card 2/2

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nauk, redaktor; VASIL'IYFA, V.P., redaktor
POL'SIAIA, R.O., technicheskiy redaktor
[Slectrochemical pickling, polishing and cidation of metals]
Blektrokhisichuskos travisnis, polirovanie-i oksidirovanie
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lit-ry, 1957. 282 p.
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(Metals—Pickling)



USSR/Engineering Card 1/1 FD-1376 : Pub. 41-3/18 Author : Kheyfets, B. 3. Title : Use of approximate formulas for calculation of multiple integrals in Periodical : Izv. AN SSSR. Otk. tekh. nauk 3, 39-48, March 1954 Abstract : Fresents new method for calculating volumes in engineering practice, discussing in detail application of formulas developed in this method for determining volumes of peat deposits and for calculating amount of earthwork. Formulas, tables, diagrams, references. Institution: (1) Submitted April 19, 1954. by L. A. Lyusterni, Corresponding Member, Acad of Sciences, USSR

AUTHOR: Kheyfets, B. S., Engineer 80V/154-58-1-10/22 TITLE: The Use of Polynomes in Mathematical Interpretation of the Complexity of Terrain Relief (Primeneniye polinomov dlya matematich skoy kharakteristiki slozhnosti re yefa zemnoy PERIODICAL: Izvestiya yashikh uchebnykh zavedeniy, Geodeziya i aerofotos"yemkii, 1958, Nr 1, pp 79-86 (USSR) ABSTRACT: It is pointed out that it is appropriate to predetermine the degree of the polynome with which a given relief of terrain should be approximated. The solution of this problem leads to a new method of estimating the terrain relief. It is shown here how this method can be used for a terrain profile by means of a function of one variable and for a terrain section by means of a function of two variables. Moreover, it is shown how an analytic expression can be obtained for the approximating polynome in the solution of practical and scientific problems. There are 5 figures, 8 tables, and 3 references, 3 of which are Soviet. Card 1/2

The Use of Polynomes in Mathematical Interpretation of the Complexity of 807/154-58-1-10/22 Terrain Relief

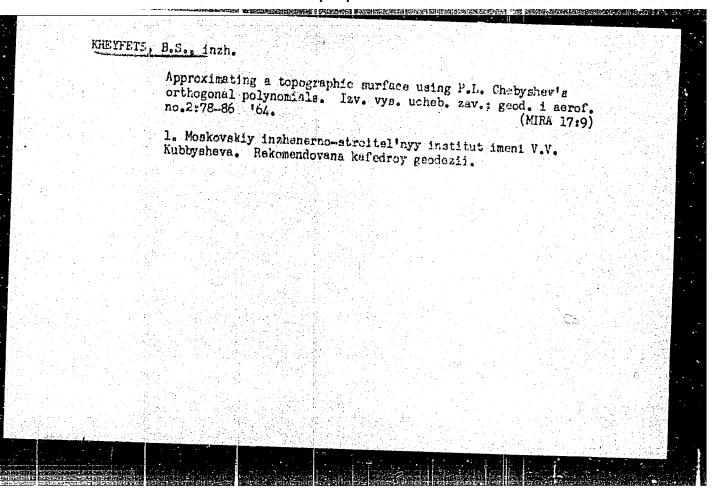
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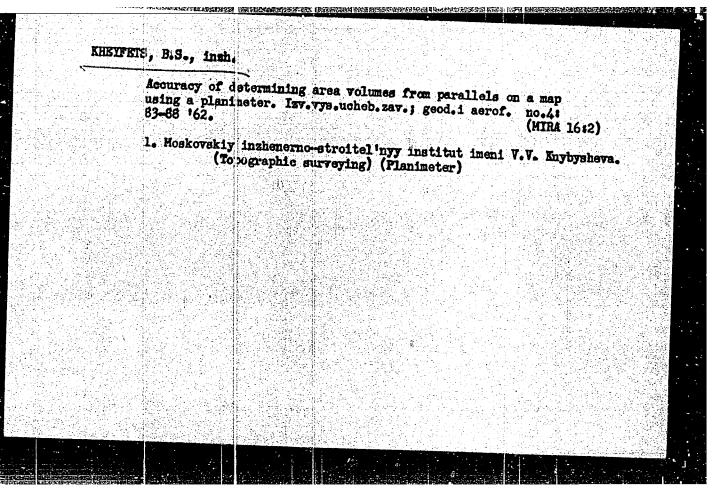
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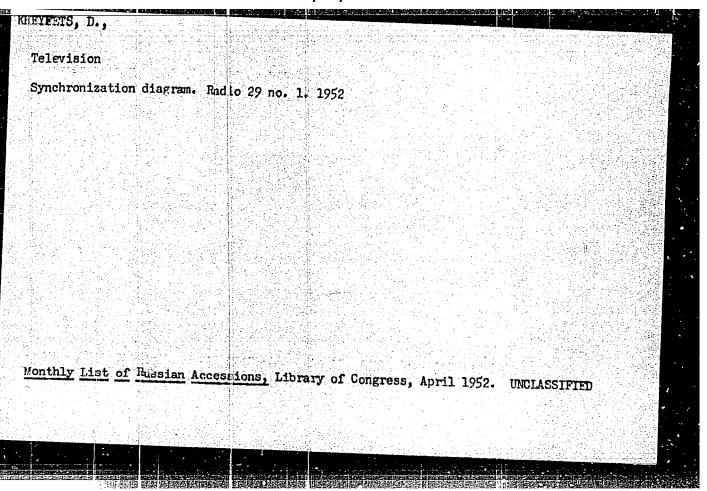
Card 2/2

MOLOCHILKOV, M.V.; SHEPRIN, V.A.; KHEYFETS, B.J.

Drive for a blist furnace charge distributor. Biul. TSTICIN APPROVED FOR RELEASE (1994) 7 (2001 Equipment and supplies)







KHEYFETS, D.

AUTHOR:

Kheyfets, D.

107-9-32/53

TITLE:

The "Key" Diagram of the Automatic Gain Control in TV Sets ("Klyuchevaya" akhema ARU v televizorakh)

PERIODICAL:

Radio, 1957, # 9, p 43-44 (USSR)

ABSTRACT:

This article gives a description of utilizing the automatic gain control system. In TV sets the proportionality between the values of the controlling voltage and the HF voltage can be disturbed at any time. An automatic gain control system utilizing a peak-detector for obtaining the controlling voltage can eliminate this deficiency, but it has other essential deficiencies due to the time-constant. The proportionality between the controlling voltage of the automatic gain control and the HF voltage can be attained only if the constant component of the video signal is not lost because of the detector. Therefore, only the IF voltage is to be applied to the detector for obtaining the controlling voltage. A good operation is obtained with the automatic gain control system, shown by figure 1. The synchronizing and the line scanning impulses are applied almost simultaneously to the grid of the tube, through which the current passes only within the time of passage of the synchronising line impulses. The time-constant of this original peak-detector

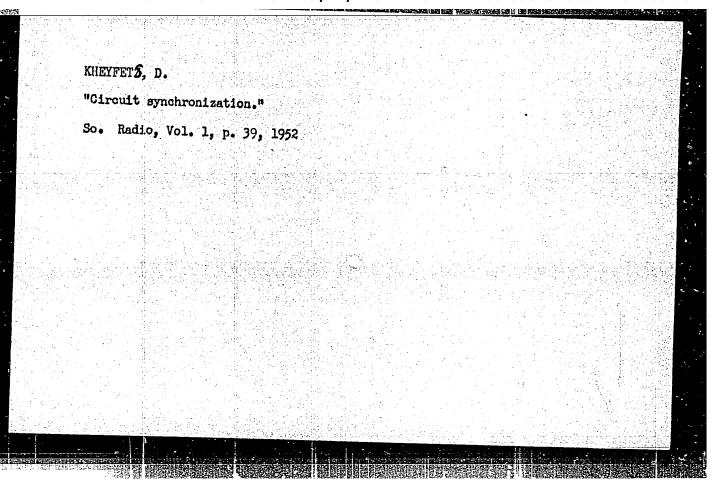
Card 1/2

The "Key" Dingram of the Automatic Gain Control in To Sets 107-9-32/53

can be small and the operation of the system will remain stable. Figure 2 shows a practical application of the "key" diagram of the automatic gain control system: In this diagram, the full timum ratio between the video and the noise signals is obtained. The article contains 2 figures.

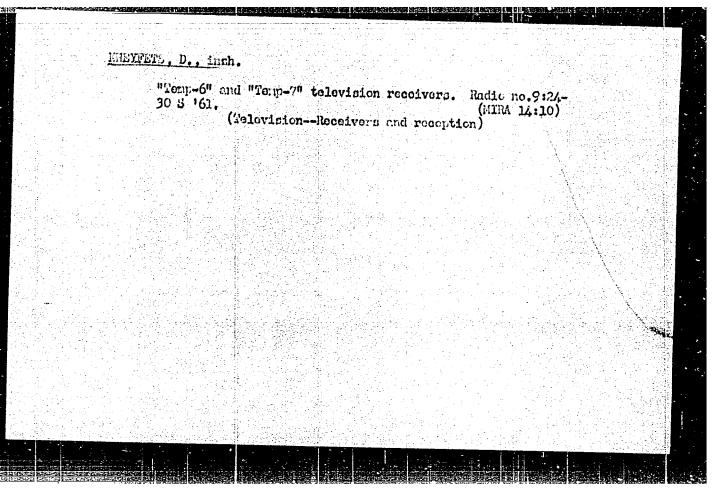
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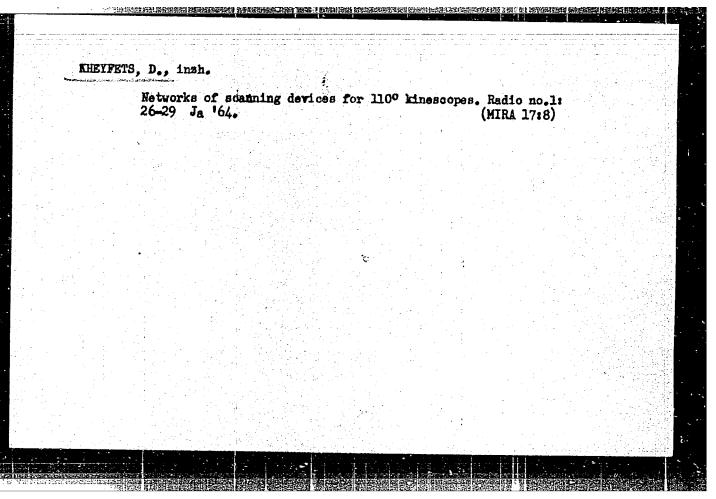
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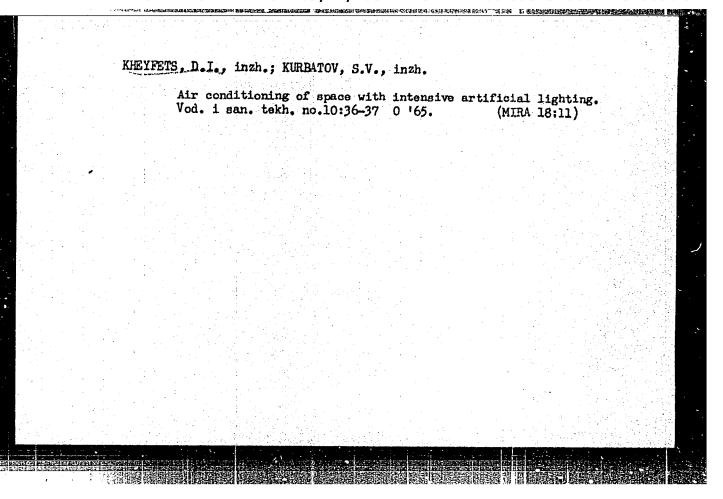


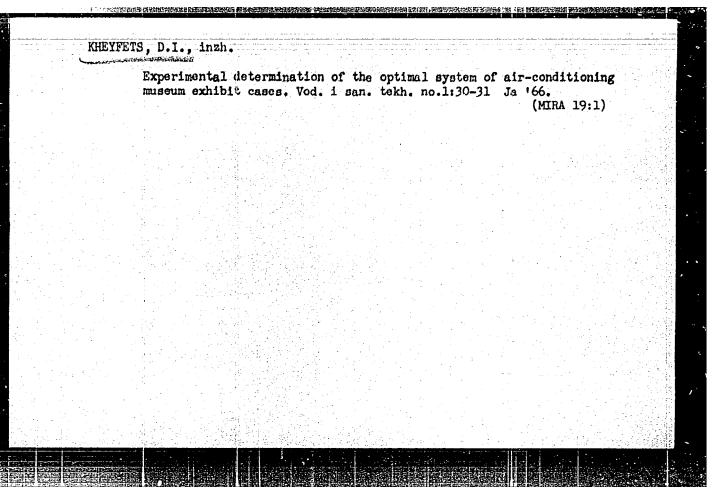
SOV/107-59-1-9/51 AUTHOR: Kheyfets, D., Chief of the Section TITLE: New TV Set Designs are Needed (Nuzhny novyye konstruktsii televizorov) PERIODICAL: Radio, 1959, Nr 1, p 12 (USSR) The author gives suggestions on how to increase the production ABSTRACT: of TV sets during the next few years, so that the total number of TV sets in use could be increased to 12.5 million by 1965. None of the TV sets now being produced are suitable for mechanical or automatic production. Therefore, the author proposes the designing of two new models using printed circuits and a number of new parts including dynamic loudspeakers, tubes and crystal diodes, plastic casings, and a kinescope with glass bulb and a deflection angle of 110 degrees. The production of the first model should reach at least 1.5 million sets, and the second one - 200-250 thousand sets annually to reach the planned 12.5 million sets in use by Card 1/2 1965.

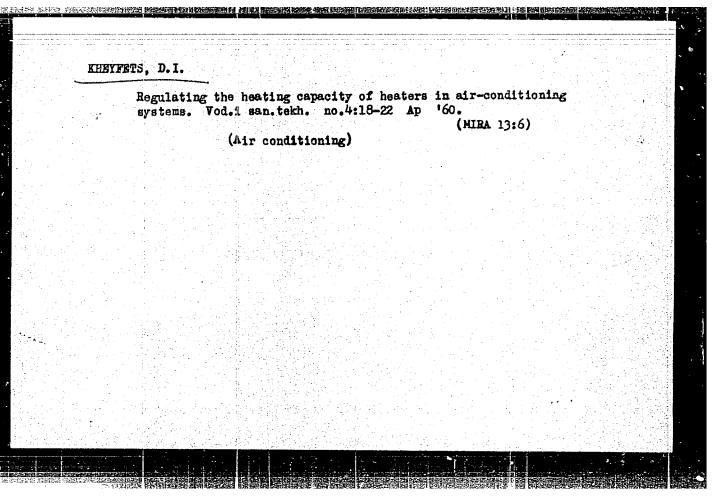
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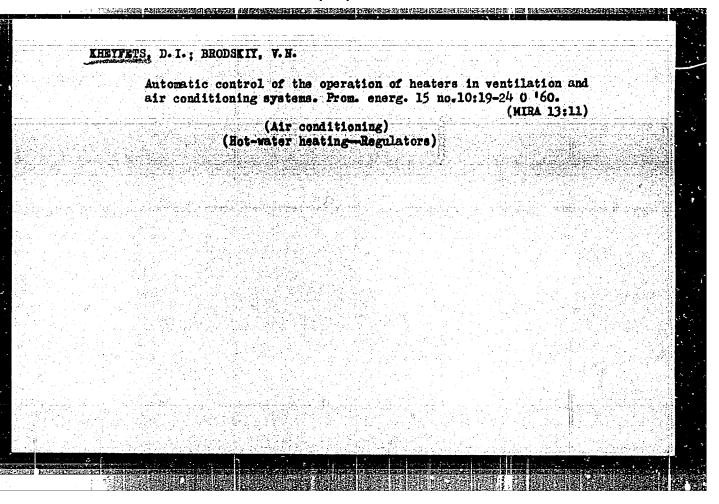








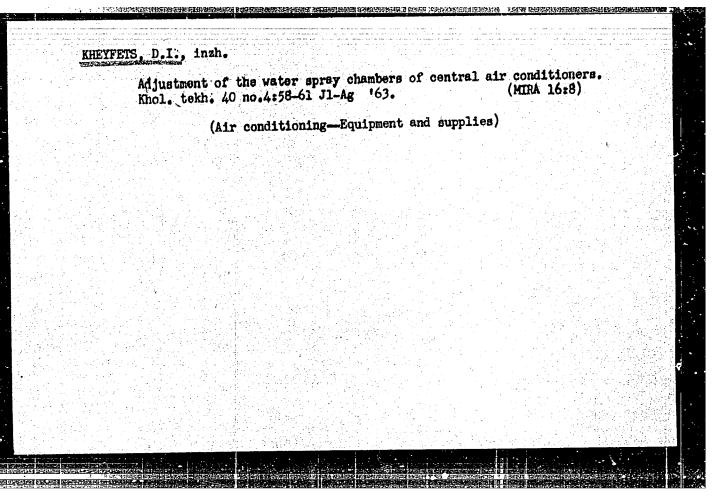


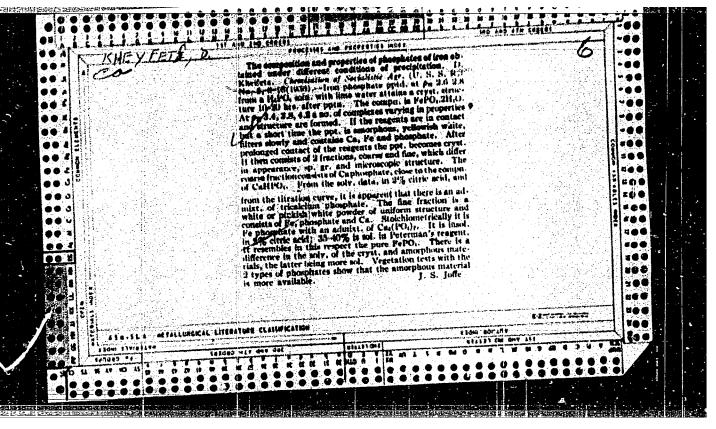


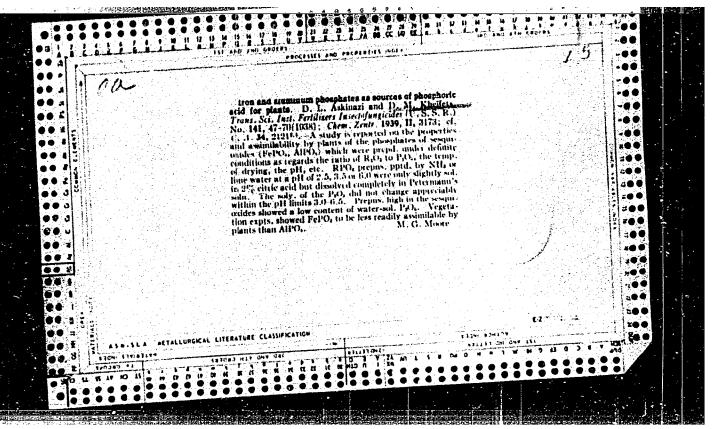
KHEYFETS, D.I. insh.; SHARGORDSKII, Ru.A.; insh.; LERNER, I.I., insh.;

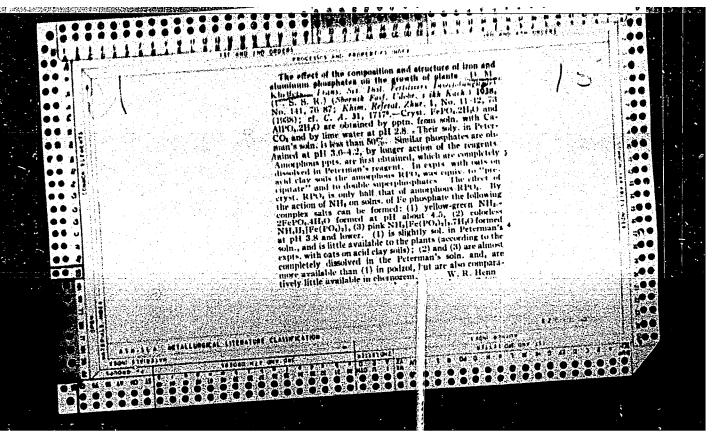
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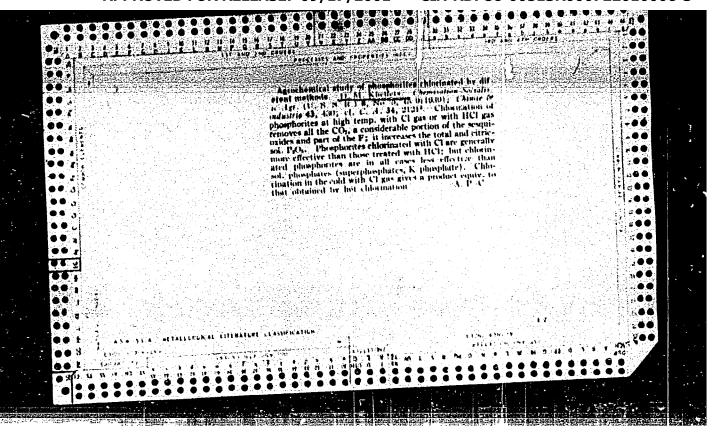
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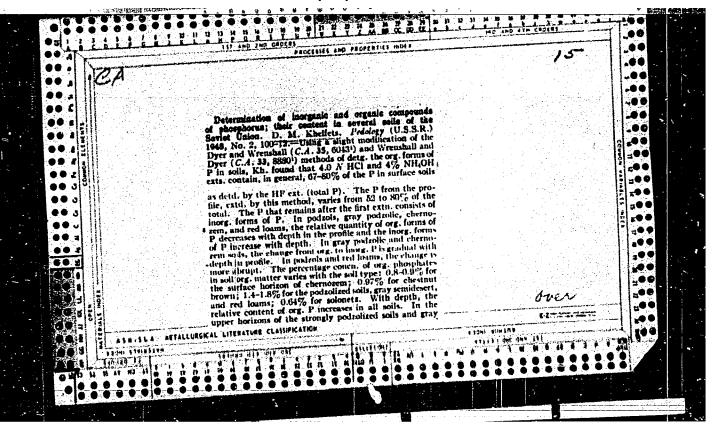


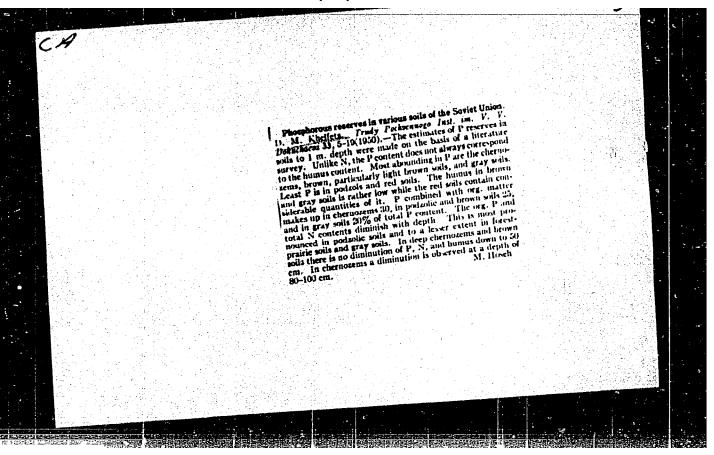


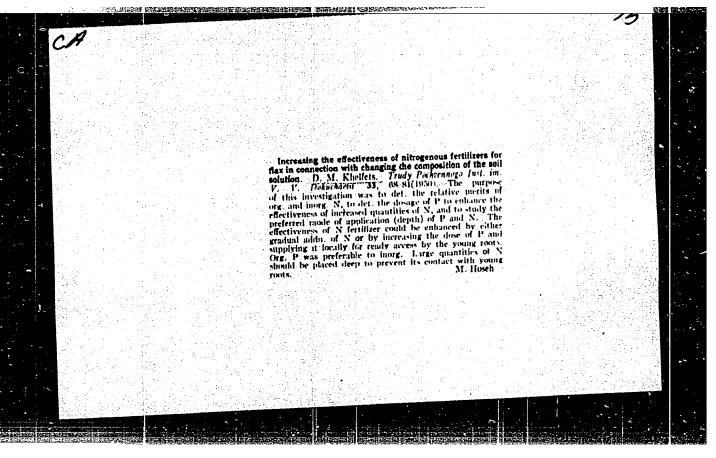


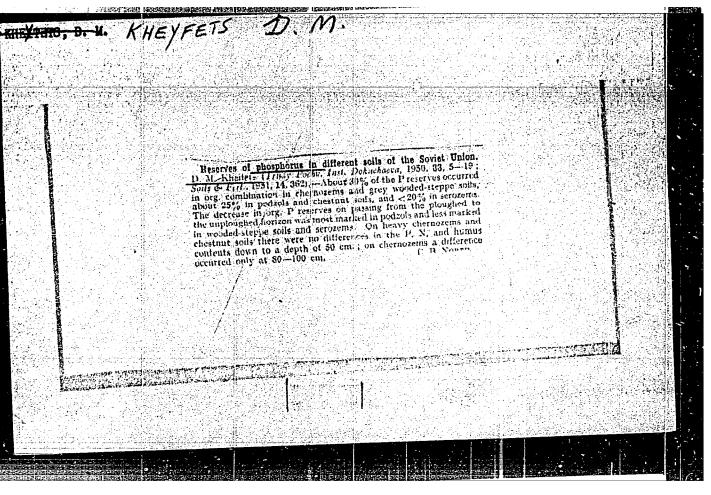


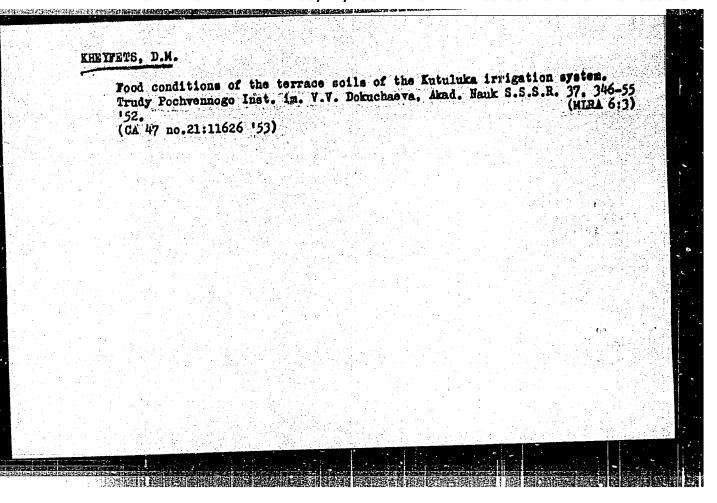












USSR/Cultivable Plants Abs Jour : Ref Zhur - Biol., No 3, 1958, 10709 Author Micyfets, D.M. Inst A Nutrition Regime for the Spring Wheats on the Fertile Title Chernozens of the Kursk LOMS and the Effect of Irrigation on It. Orosheniye s.-kh kul tur v Teentr.-chernozea. polose Orig Pub ASFSR, No 2, Moskva, AN SSSR, 1956, 348-372 The yield increases in Lyutestsens 62 and Gordeiforn when Abstruct irrigated and at the same time, fertilized with Mak were, respectively, 9 centners/hectare and 10.5 centners/hectare. When irrigation is combined with application of 205 and K20, the doses of N have to be increased. The doses of KoO, which increases yields significantly, must be somewhat reduced in wetter years and when the wheat is irrigated. Lyutestsens 62 needs more fortilizer than Gordelform Card 1/2

USSR/Cultivated Plants - Grains.

M.

Abs Jour

: Ref Zhur - Biol., No 10, 1958, 44032

Author

: Kheyfets, D.M.

Inst

: Soil Institute of the AS USSR

Title

: Study of the Mutrient Rate of Spring Wheat on Strong Chernozens and the Effect of Irrigation on the Feeding

Regime.

Orig Pub

: Tr. Pochv. in-ta AN SSSR, 1957, 50, 79-123

Abstract

: At the Kursk zonal experimental station the individual years of study differed considerably from the standpoint of meteoroligical conditions. In 1949, 1950 and 1952 during the period of germination and the beginning of shoot formation in spring wheat, precipitation was insufficient. This is typical of the region. Watering by rain in these years took place at the end of May and

Card 1/3

USSR/Cultivated Plants - Grains.

H.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44032

beginning of June. The polisture content in the plowed layer dropped to 10-16; in different years on unirrigated plots and on the irrigated plots it was maintained at not lower than 20% (the wilting point was 14-15%). Irrication of both fertilized and unfertilized plots increased the grain yield of wheat variety Lutescens 62 on an average by 3 centures/ha. With this the total around of H in the crop rose considerably, the amount of K rose to a lesser degree and accumulation of P was almost unchanged. Complete mineral fertilization secured an increase in the wheat yield - about 5-6 contners/he under irrigated and unirrigated conditions. Simultaneous use of irrigation and fertilizers increased the wheat erop on an average by 9 centenrs/ha while the yield on unirrigated and unfertilized plots was 12 centuers/ha. The soft wheat Lutescens 62 contains at separate stages of development more N. P and K regardless of introduced fertilizers when

Card 2/3

- 19 -

